

Release notes for ENDF/B Development p-002\_He\_003  
evaluation

**ENDF**  
**B-VII**.dev

December 2, 2016

- **checkr** Warnings:

1. A previous error halted parsing of the current section  
*MAT= 225, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT= 225, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 22 TO 27
```

- **checkr** Errors:

1. A variable is outside the allowed ENDF range  
*MAT= 225, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT= 225, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 22
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT= 225, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT= 225, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 29
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT= 225, MF= 3, MT=111 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT= 225, MF= 3, MT=111
SECTION 3/111 NOT IN DIRECTORY RECORD NUMBER 34
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT= 225, MF= 6, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT= 225, MF= 6, MT= 2
SECTION 6/ 2 NOT IN DIRECTORY RECORD NUMBER 42
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT= 225, MF= 6, MT=111 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT= 225, MF= 6, MT=111
SECTION 6/111 NOT IN DIRECTORY RECORD NUMBER 262
```

- **fizcon** Errors:

1. The mass field (AWI) is incorrectly set.  
*MAT= 225, MF= 1, MT=451 (1): Bad mass*

```
ERROR(S) FOUND IN MAT= 225, MF= 1, MT=451
AWI SHOULD BE SET TO 9.98623E-01
```

2. A TAB1 (yield?) and an outgoing distribution don't span the same energy region.  
*MAT= 225, MF= 6, MT= 2 (1): Diff limits (c)*

ERROR(S) FOUND IN MAT= 225, MF= 6, MT= 2  
 ENERGY RANGE FOR DISTRIBUTIONS IN LIST RECORDS  
 INCONSISTENT WITH TAB1 RECORD                      SEQUENCE NUMBER        1

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.  
*reaction label 1:  $H1[multiplicity: '2'] + H2$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -3633962.084245443 eV vs -5.4937e6 eV!